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Message Text

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FOR OIM/WELCH

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SUBJECT: TC NOISE AND VIBRATION EXHIBITION/SEMINAR

REF: USDOC 19008 PARA TWO

FOLLOWING IS A SYNOPSIS OF AKASHI/LING PRESENTATION FOR OIM/MOWRY REVIEW: DIGITAL VIBRATION CONTROL TECHNIQUES EMPLOYED IN THE LING'S 60000 SERIES DIGITAL VIBRATION CONTROL AND ANALYSIS SYSTEMS ARE REVIEWED AND ARE COMPARED WITH CONVENTIONAL ANALOGUE TECHNIQUES. THE FOLLOWING METHODS ARE DISCUSSED AND DESCRIBED IN THE FORM OF BLOCK DIAGRAMS.

(1) METHODS OF RANDOM VIBRATION CONTROL AND ANALYSIS.
(2) METHODS OF FREQUENCY SWEEP SINEWAVE BIBRATION TESTING.
(3) METHODS OF SHOCK OR TIME HISTORY DUPLICATION.

SOME FIELD EXPERIENCES, RESULTS OF PROGRAMMED CONTROLS AND DUPLICATED WAVEFORMS OF TIME HISTORIES WILL BE INTRODUCED. FIELD TECHNIQUES AND OPERATIONS ARE DETAILED RATHER THAN BASIC CONCEPTS.

THE PROCEDURES TO PERFORM THE SINEWAVE TESTS BASED ON THE MIL SPECIFICATIONS OR THE IEC STANDARDS AND THE EARTHQUAKE WAVE DUPLICATION TESTS FOR THE SEISMIC STUDY WILL ALSO BE DISCUSSED.
HODGSON

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